



CHRYSLER

July 2010

Dealer Service Instructions for:

Safety Recall J32

Engine Intake Manifold

Models

2003 (VA) Dodge Sprinter (2500 and 3500 series)

NOTE: This recall applies only to the above vehicles equipped with a 2.7L diesel engine built through September 29, 2003 (MDH 092901).

IMPORTANT: Some of the involved vehicles may be in dealer used vehicle inventory. Dealers should complete this recall service on these vehicles before retail delivery. Dealers should also perform this recall on vehicles in for service. Involved vehicles can be determined by using the VIP inquiry process.

Subject

The engine intake manifold on about 3,500 of the above vehicles may develop corrosion in the Exhaust Gas Recirculation (EGR) passage. This could lead to exhaust gas leakage onto the dash panel silencer pad. Prolonged exposure of hot exhaust gases on the dash panel silencer pad could result in an underhood fire.

Repair

The engine intake manifold must be replaced. The dash panel silencer pad must be inspected and replaced if required.

Parts Information**Part Number** **Description****CBBZJ320AA Intake Manifold Package**

Due to the small number of involved vehicles, no parts will be distributed initially. Dealers should order the Intake Manifold Package and Studs for each vehicle at the time appointments are scheduled to assure that the parts are available when the customer arrives.

Part Number **Description****68088718AA Stud, Intake Manifold Gasket Retaining**

NOTE: Two studs (listed above) must be ordered along with each Intake manifold repair package. These studs are temporarily installed to hold the intake manifold gasket in place during intake manifold installation.

Part Number **Description****05122526AA Pad, Dash Panel Silencer****Part Number** **Description****04318040AB Degreaser, Foamy Engine****04897156AB Cleaner, Throttle Body****Special Tools**

The following special tools are required to perform this repair:

- 9285 Socket, Fuel Tube
- 9286 Pliers, Glow Plug Connector

Service Procedure**A. Intake Manifold Removal and Dash Panel Silencer Pad Inspection**

1. Using Mopar Foamy Engine Degreaser (P/N 04318040AB), wash the engine. Be sure to thoroughly clean the areas around the fuel filter, fuel rail and front of the engine.
2. Disconnect and isolate the negative battery cable.
3. Drain the engine coolant from the cooling system.
4. Remove the engine fuel injector cover from the engine (Figure 1).
5. Remove the intake manifold charge air hose (Figure 1).

NOTE: Place a shop towel in the mass airflow sensor opening to prevent debris from entering the mass airflow sensor opening.

6. Remove and save the Exhaust Gas Recirculation (EGR) mixing chamber from the intake manifold (Figures 1 and 2).

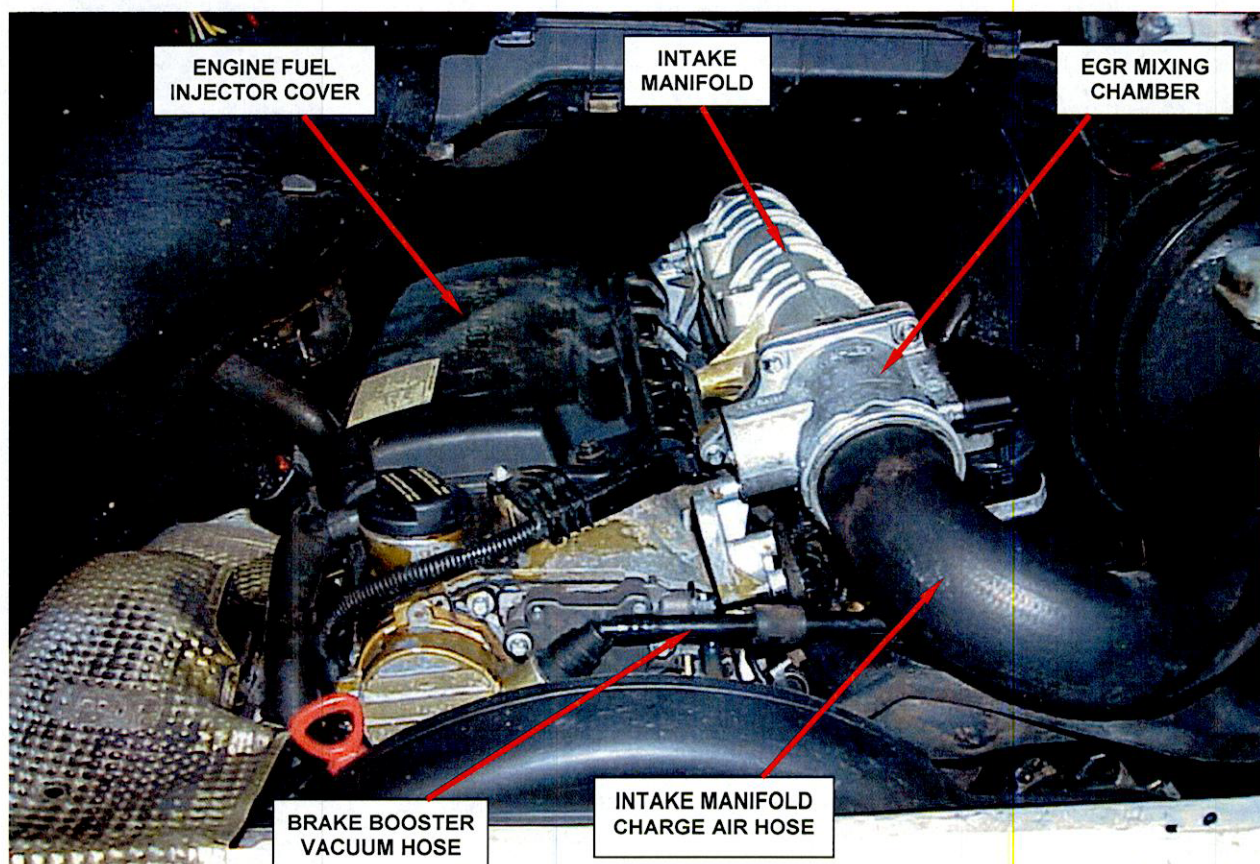


Figure 1 – Component Removal

Service Procedure (Continued)

7. Remove the intake manifold upper steel support bracket from the engine (Figure 2).
8. Remove the two bolts from the rear aluminum intake manifold support bracket (Figure 2).
9. Using Special Tool 9285, remove the five injector rail-to-injector crossover tubes (Figure 2). Place rubber caps over all open fuel ports.
10. Remove the upper radiator hose.

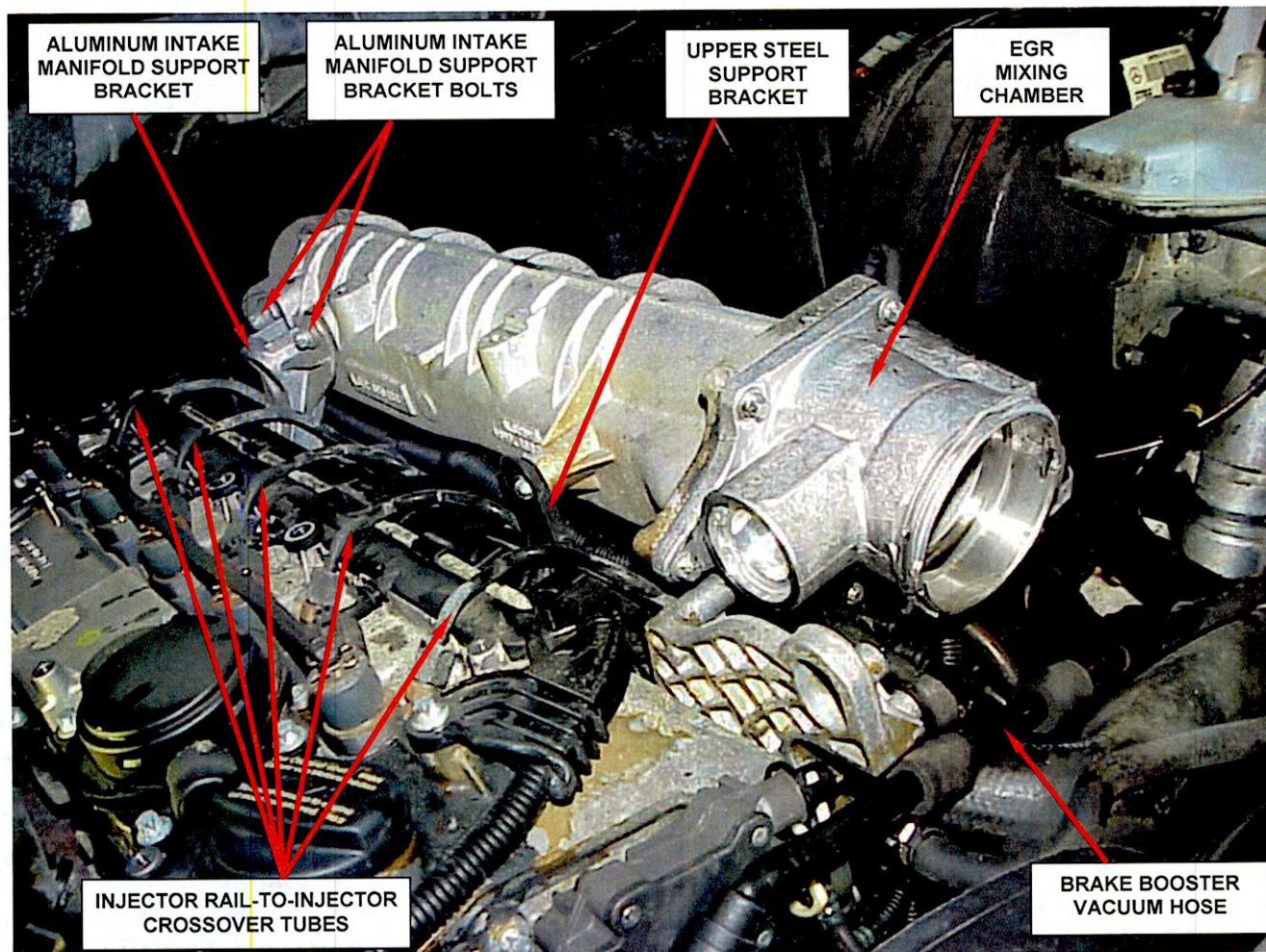
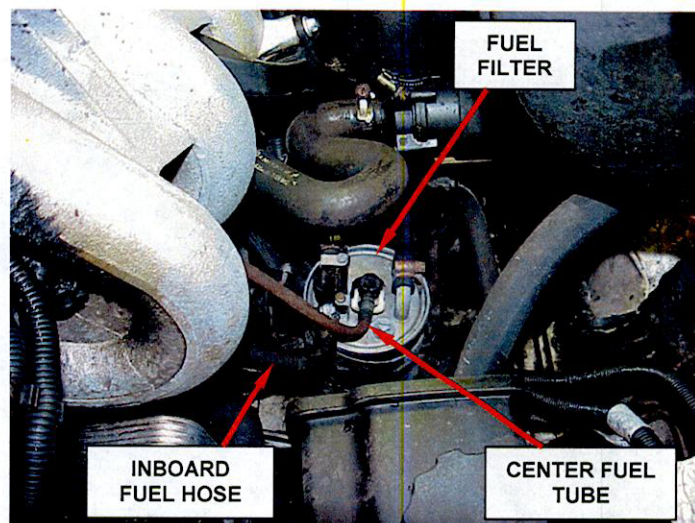


Figure 2 – Component Removal

Service Procedure (Continued)

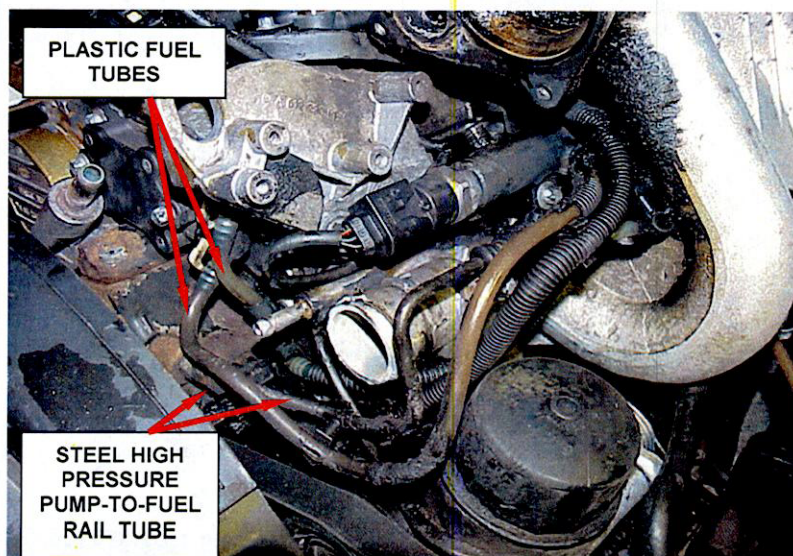
11. Remove the radiator coolant recovery bottle hose.
12. Remove the brake booster vacuum hose from the vehicle (Figure 2).
13. Remove and cap the inboard fuel hose at the fuel filter (Figure 3).
14. Remove and cap the center fuel tube at the fuel filter (Figure 3).

**Figure 3 - Fuel Filter & Hoses**

15. Remove fuel tube at fuel pressure sensor located on the bottom side of the intake manifold.

NOTE: The fuel tube quick connect disengages by pushing and holding the white horse shoe clip while carefully wiggling the fuel tube quick connector from the sensor port. All quick connects disengage using this technique.

16. Remove the fuel filter and bracket as an assembly from the frame and set aside.
17. Remove and save the steel high pressure pump-to-fuel rail tube (Figure 4). Place rubber caps over open fuel ports.
18. Disconnect the heater hose at the lower intake manifold support bracket.
19. Remove the lower intake manifold support bracket.

**Figure 4 - Steel High Pressure Pump-To-Fuel Rail Tube**

Service Procedure (Continued)

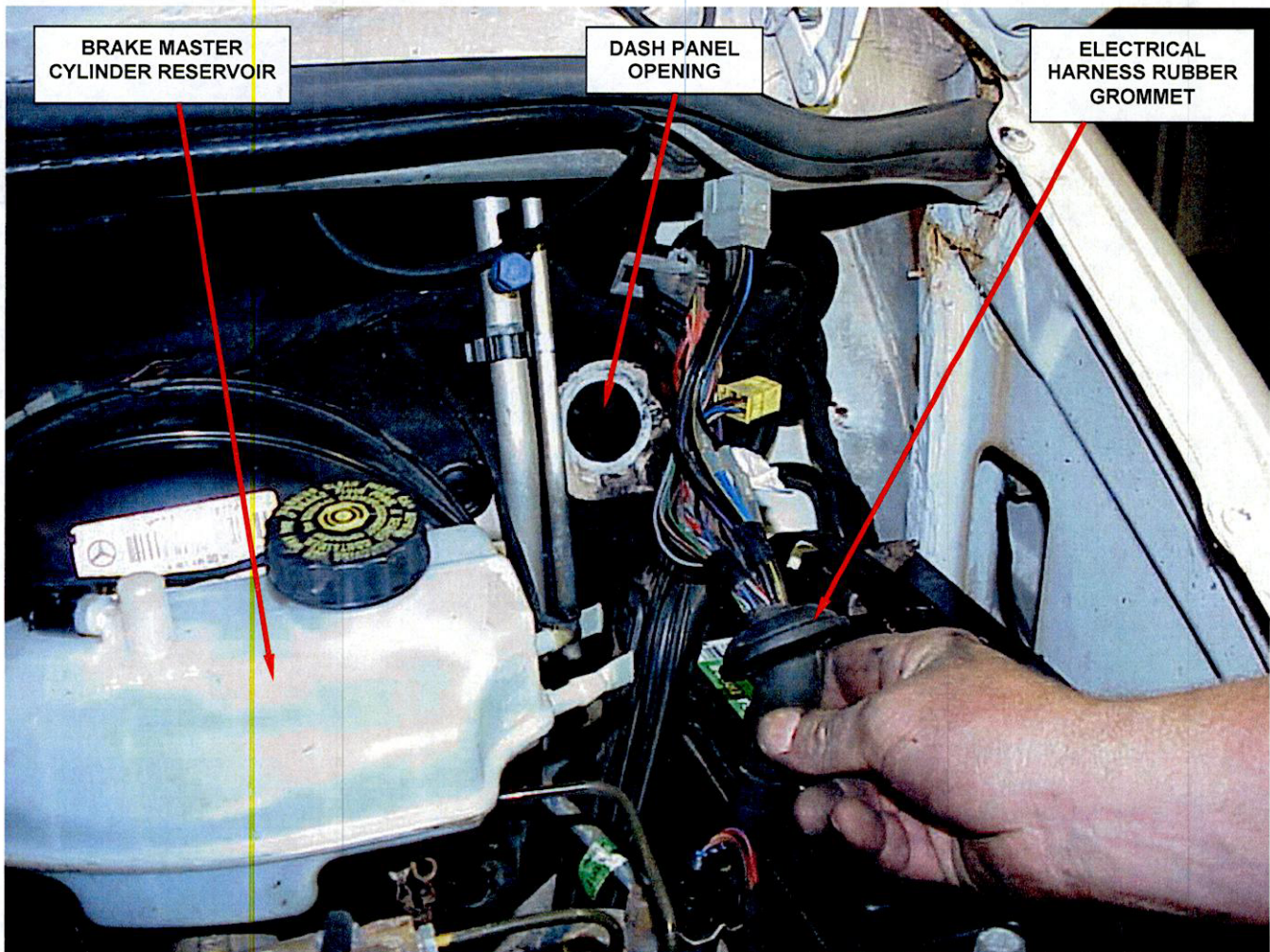


Figure 5 – Electrical Wire Harness Removal

20. Remove the engine wiring harness from the vehicle using the following procedure:
 - a. Disconnect the three engine electrical wiring harness connectors located under the instrument panel (Figure 5).
 - b. Disengage the dash panel engine electrical harness rubber grommet from the dash panel (Figure 5).
 - c. Pull the harness out of the dash panel opening (Figure 5).
 - d. Cut and discard the engine electrical harness tie straps that hold the engine harness to the main wiring harness.

Service Procedure (Continued)

- e. Disconnect the ABS module connectors located under the battery.
- f. Disconnect all underhood connectors that are related to the engine harness (Figure 6).
- g. Disconnect the engine harness retaining bolts.
- h. Using Special Tool 9286, disconnect the five glow plug electrical connectors from the glow plugs (Figure 6).
- i. Disconnect the electrical connectors at the five fuel injectors (Figure 6).
- j. Carefully remove the entire engine electrical harness assembly from the vehicle (Figure 6).

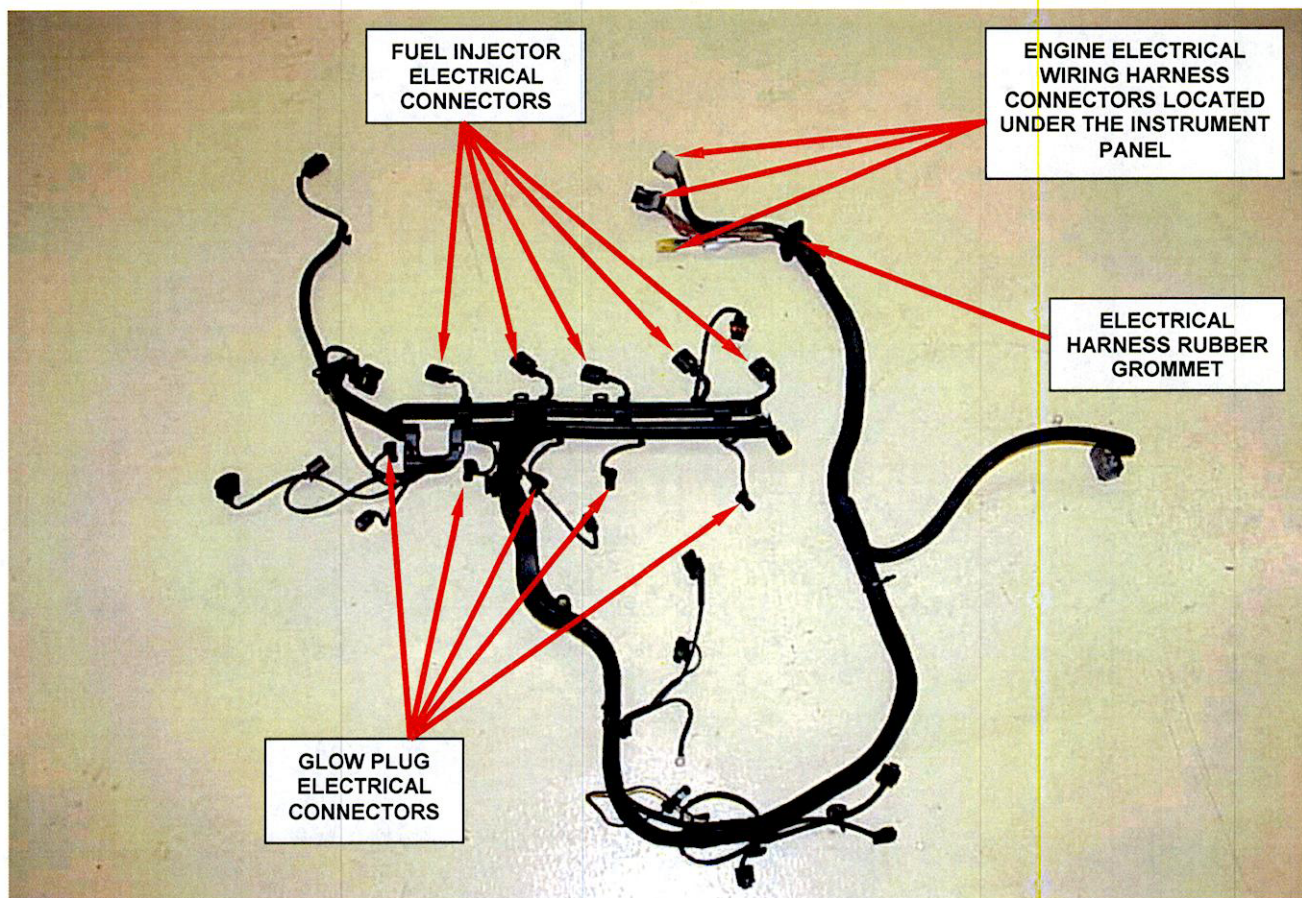


Figure 6 – Remove Engine Wiring Harness

Service Procedure (Continued)

21. Remove the intake manifold mounting bolts.

NOTE: All bolts are accessible without having to remove or loosen the fuel rail. Some bolts are accessed from the top and others from under the vehicle.

22. Carefully remove the intake manifold from the vehicle.

23. Inspect the dash panel silencer pad for burn holes or damage:

- If no burn holes or damage is found on the dash panel silencer pad in the area shown in Figure 7, continue with Section C – Intake Manifold Installation.
- If the dash panel silencer pad is damaged or burned in the area shown in Figure 7, continue with Section B – Dash Panel Silencer Pad Replacement.

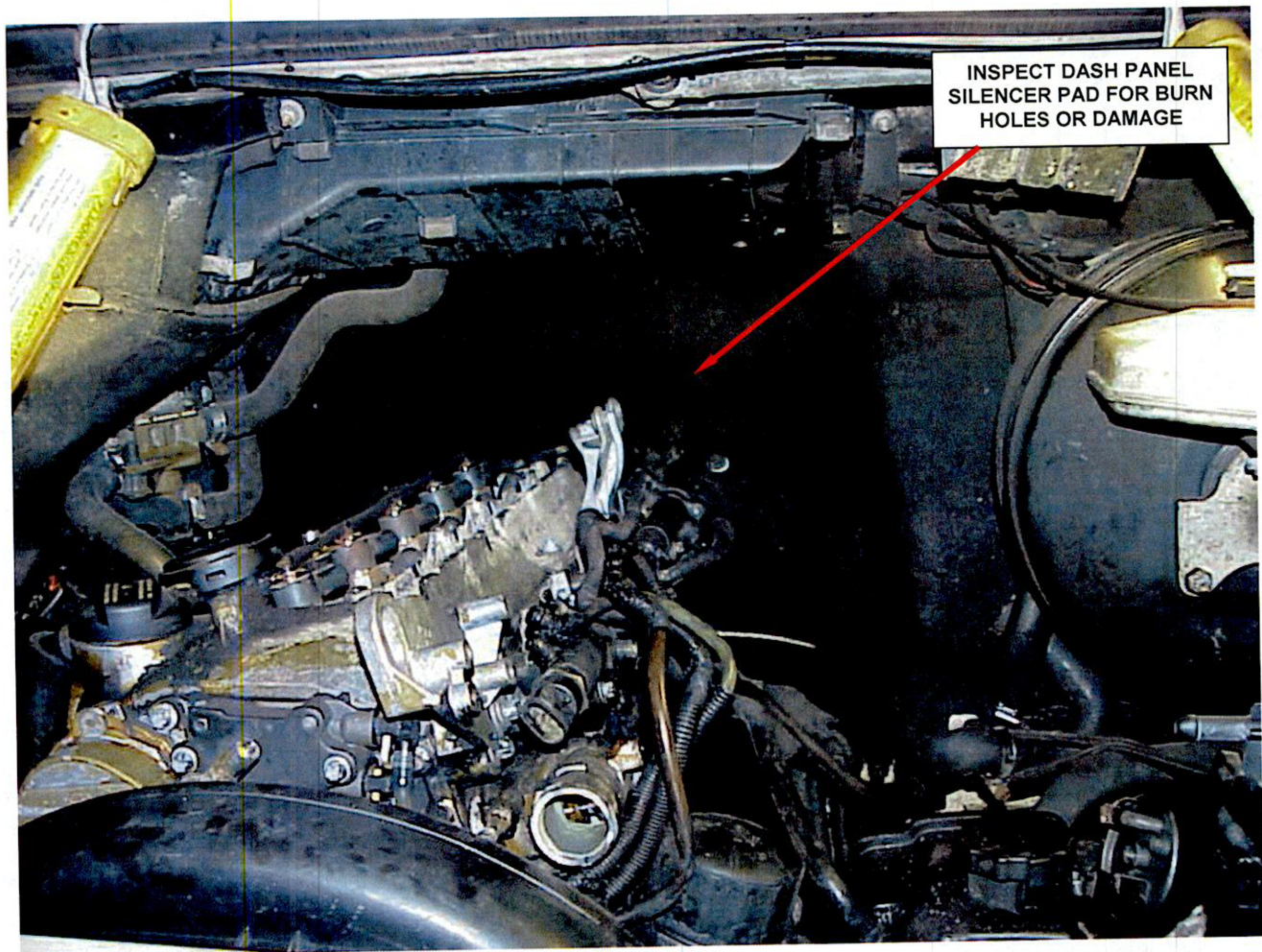


Figure 7 – Inspect Dash Panel Silencer Pad for Damage

Service Procedure (Continued)

B. Dash Panel Silencer Pad Replacement

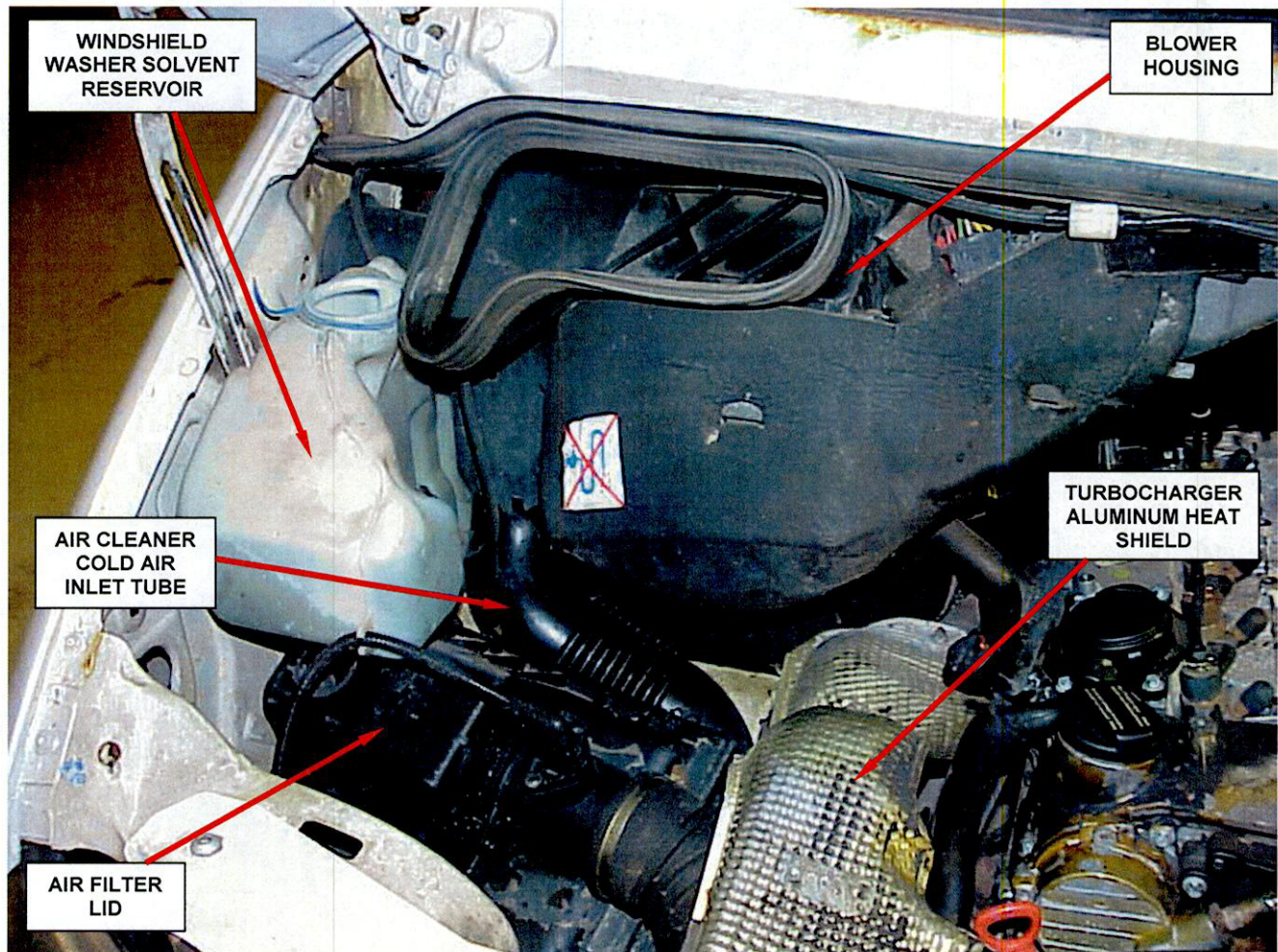


Figure 8 – Component Identification

1. Remove the turbocharger aluminum heat shield (Figure 8).
2. Remove the air filter lid (Figure 8).
3. Remove the windshield washer solvent reservoir (Figure 8).
4. Remove the air cleaner cold air inlet tube (Figure 8).
5. Remove the blower housing as an assembly (Figure 8).

Service Procedure (Continued)

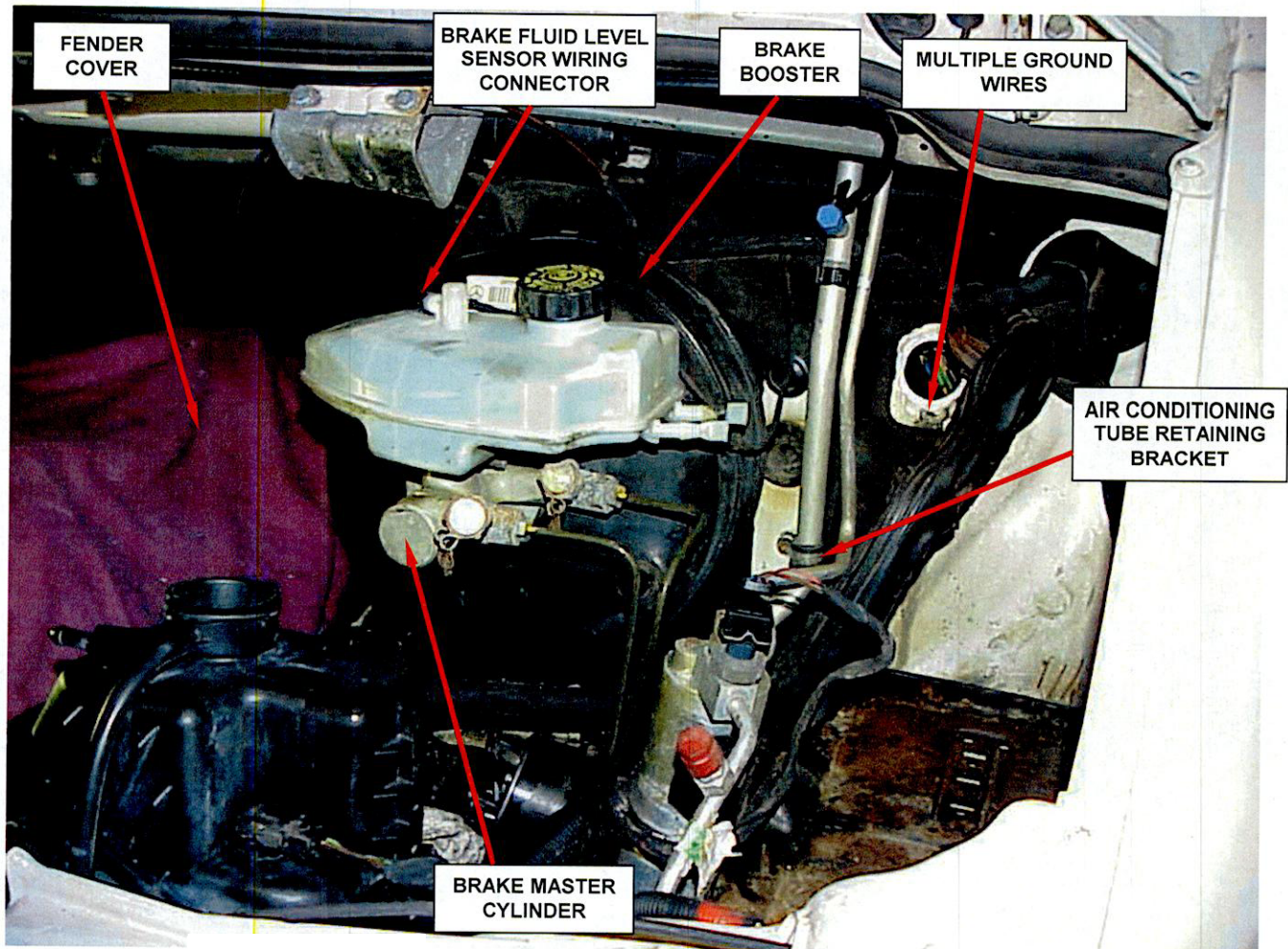
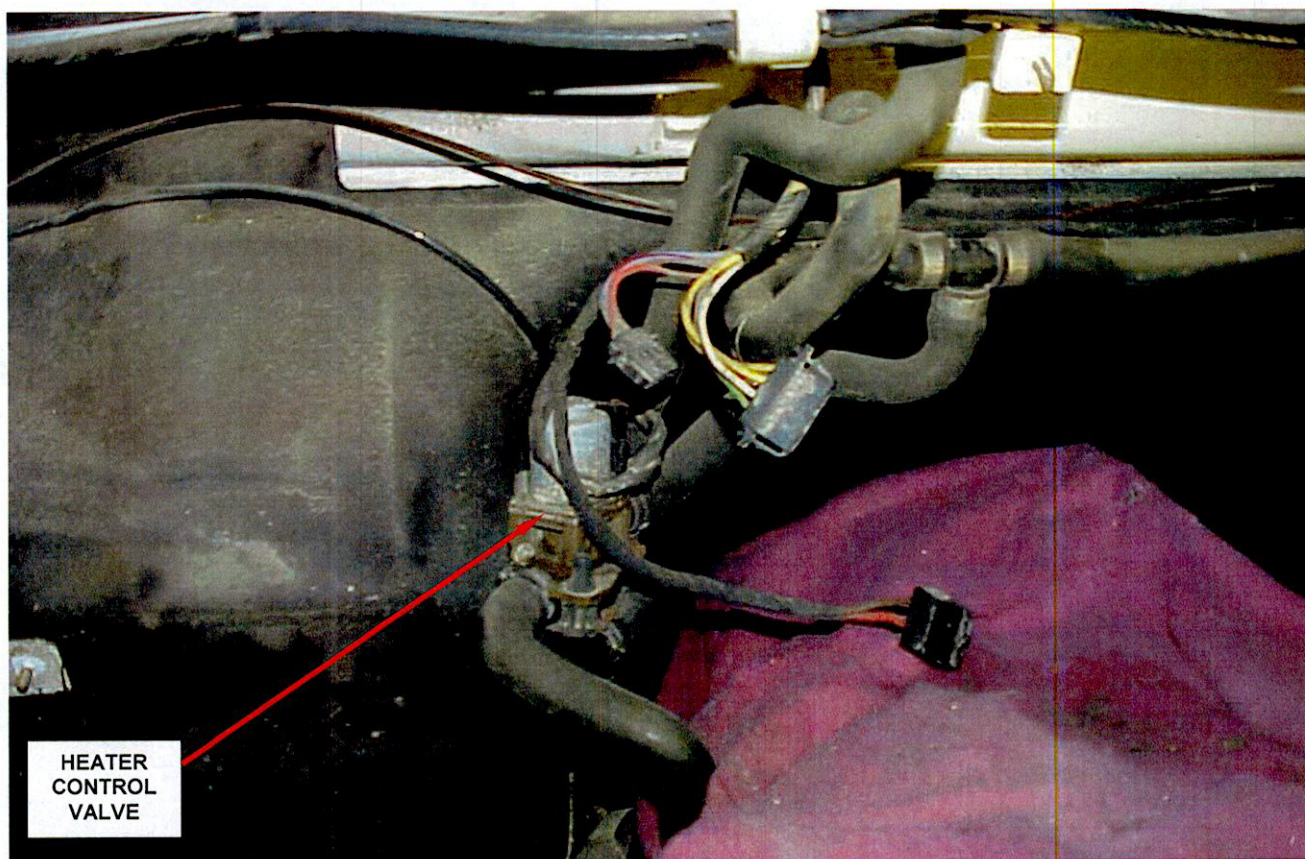


Figure 9 – Component Removal

6. Place a fender cover over the engine to prevent dirt from getting into the engine and/or injectors (Figure 9).
7. Remove the battery from the vehicle (Figure 9).
8. Remove the ground screw that holds multiple ground wires to the dash panel (Figure 9).
9. Disconnect the air conditioning tube retaining bracket.
10. If equipped, disconnect the 12 volt feed wire located next to the brake booster.
11. Disconnect the brake fluid level sensor wiring connector (Figure 9).

Service Procedure (Continued)**Figure 10 – Heater Control Valve**

12. Remove and set aside the brake master cylinder from the brake booster (Figure 9). Do not disconnect the brake tubes from the master cylinder.
13. Remove the brake booster from the vehicle (Figure 9).
14. Lock the steering wheel into position to prevent it from turning.
15. Disconnect the steering linkage at the steering gear.
16. Disconnect the left side heater hose bracket from the dash panel.
17. Disconnect the heater control valve from the dash panel (Figure 10).
18. Disconnect the heater hoses at the heater core.
19. Disconnect the heater hose supports.
20. Remove the remaining vacuum hose clips and dash panel silencer pad retainers.
21. Remove and discard the original dash panel silencer pad.

Service Procedure (Continued)

22. Clean and remove any debris on the dash panel.
23. Install the new dash panel silencer pad into the vehicle engine compartment.
24. Connect the heater hoses and supports.
25. Install the dash panel silencer pad retainers and vacuum hose clips.
26. Connect the heater control valve to the dash panel (Figure 10).
27. Connect the left side heater hose bracket to the dash panel.
28. Connect the steering linkage at the steering gear. Tighten the pinch bolt to 18 ft. lbs. (24 N·m).
29. Install the brake booster into the vehicle (Figure 9). Tighten the mounting nuts to 221 in. lbs. (25 N·m).
30. Connect the brake master cylinder to the brake booster (Figure 9). Tighten the brake master cylinder nuts to 248 in. lbs. (28 N·m).
31. Connect the brake fluid level sensor wiring connector (Figure 9).
32. Install the air conditioning tube retaining bracket (Figure 9).
33. If equipped, connect the 12 volt feed wire located next to the brake booster.
34. Install the ground screw that holds multiple ground wires to the dash panel (Figure 9).
35. Install the battery into the vehicle (Figure 9). Do not connect the negative battery cable at this time.
36. Install the blower motor housing (Figure 8).
37. Install the air cleaner cold air inlet tube (Figure 8).
38. Install the air filter lid (Figure 8).
39. Install the windshield washer solvent reservoir (Figure 8).
40. Install the turbocharger aluminum heat shield (Figure 8).
41. Continue with Section C – Intake Manifold Installation.

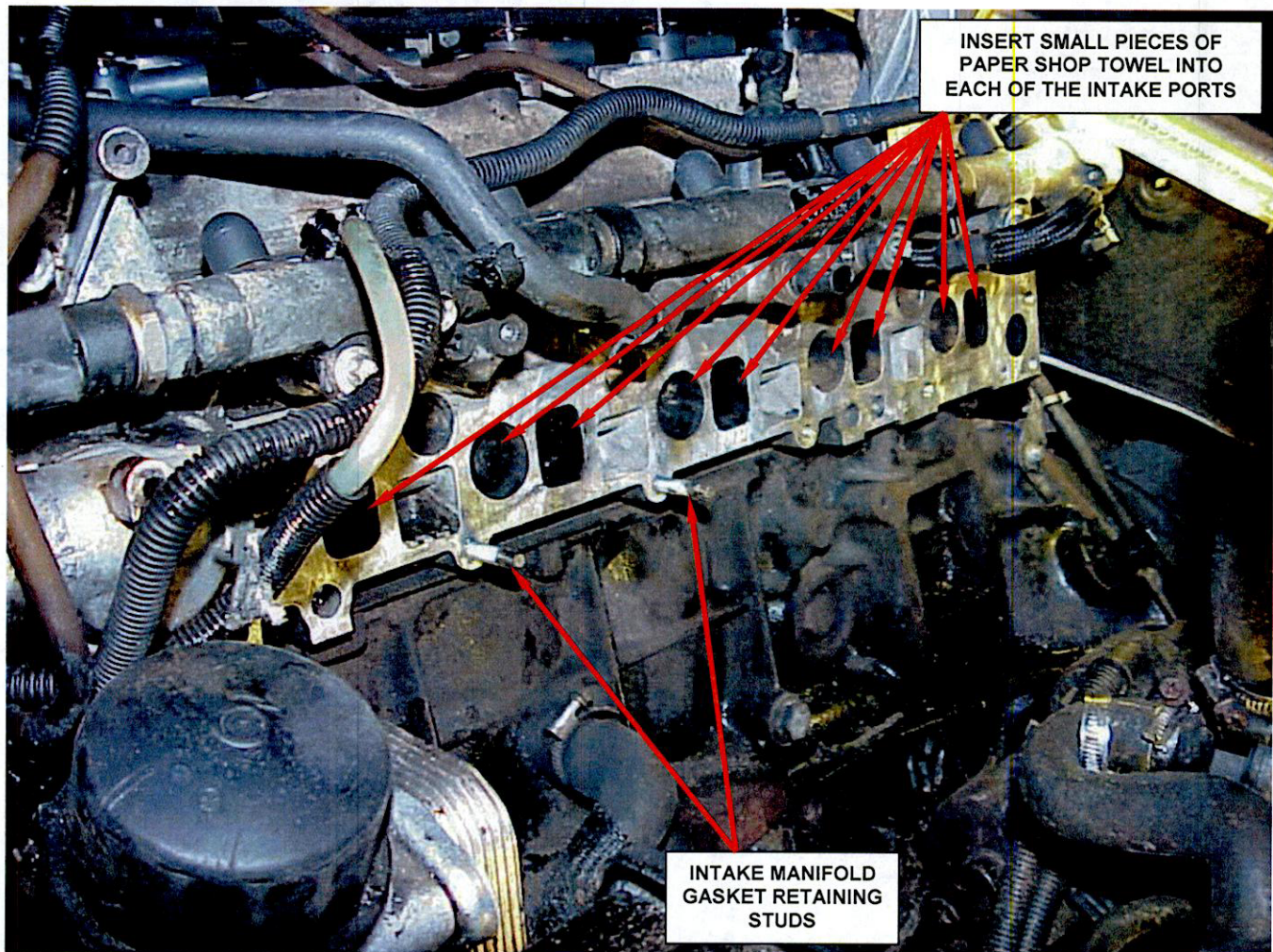
Service Procedure (Continued)**C. Intake Manifold Installation**

Figure 11 – Clean Head Surface and Install Studs

1. Using a shop vacuum, clean out any debris from the cylinder head intake ports.
2. Insert small pieces of paper shop towel into each of the intake ports to prevent dirt and debris from entering the intake ports while cleaning the cylinder head sealing surface (Figure 11).
3. Clean the intake manifold sealing surface on the cylinder head (Figure 11).
4. Carefully remove the paper shop towel installed in each of the intake ports (Figure 11).

Service Procedure (Continued)

5. Using a shop vacuum again, vacuum out any debris from the intake ports on the cylinder head.
6. Temporarily install the intake manifold gasket retaining studs shown in Figure 11.
7. Install the intake manifold gasket onto the cylinder head.

NOTE: The studs will keep the intake manifold gasket in position during intake manifold installation.

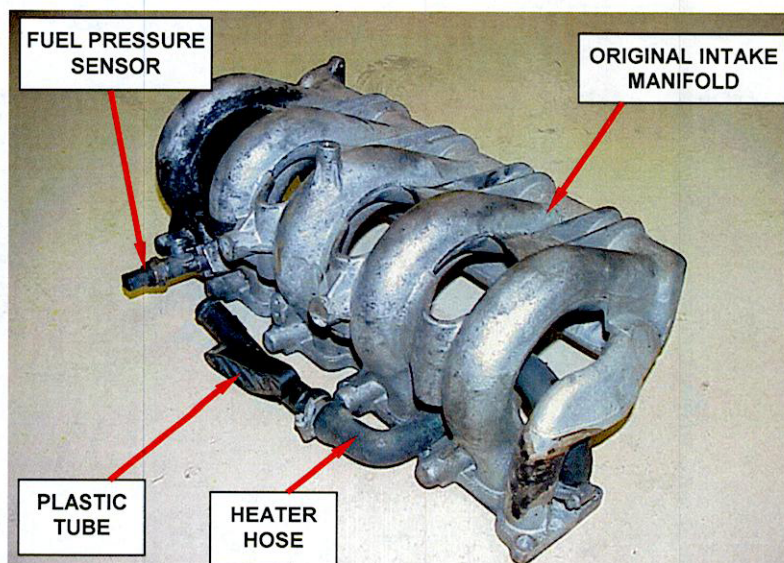


Figure 12 – Transfer Components

8. Transfer the fuel pressure sensor to the new intake manifold (Figure 12).
9. Transfer the heater hose and plastic tube to the new intake manifold (Figure 12).
10. Install the new intake manifold onto the engine.
11. Hand start all intake manifold retaining bolts except for where the intake manifold gasket retaining studs are located.
12. Remove the two intake manifold gasket retaining studs.
13. Install the two remaining intake manifold retaining bolts in the two positions the studs were removed.
14. Tighten all intake manifold retaining bolts. Start tightening bolts from the center of the manifold and work outwards. Tighten the bolts to 142 in. lbs. (16 N·m).

Service Procedure (Continued)

15. Install the engine wiring harness using the following procedure:

a. Install the engine wiring harness into position on the engine.

NOTE: The wiring harness routes between the second and third intake runners on the intake manifold.

b. Using Special Tool 9286, connect the five glow plug electrical connectors onto the glow plugs (Figure 6).

c. Connect the engine harness retaining bolt.

d. Connect the electrical connectors at the five fuel injectors (Figure 6).

e. Connect the ABS module connectors located under the battery.

f. Connect all electrical connectors that are related to the engine harness.

g. Tie straps the engine wiring harness to the main wiring harness.

h. Feed the three engine wiring harness connectors through the dash panel opening in the dash panel and seat the rubber grommet (Figure 5).

i. Connect the three engine electrical harness connectors located under the instrument panel.

16. Install the lower intake manifold support bracket.

17. Connect the heater hose at the lower intake manifold support bracket.

18. Connect the fuel tube to the fuel pressure sensor located on the bottom side of the intake manifold (Figure 12).

19. Install the fuel filter and bracket assembly onto the frame.

20. Install the center fuel tube at the fuel filter (Figure 3).

21. Connect the inboard fuel hose at the fuel filter (Figure 3).

Service Procedure (Continued)

22. Install the steel high pressure pump-to-fuel rail tube (Figure 4). Tighten the tube nuts to 195 in. lbs. (22 N·m).
23. Using Special Tool 9285, install the five injector rail-to-injector crossover tubes (Figure 2). Tighten the tubes to 195 in. lbs. (22 N·m).
24. Install the upper radiator hose.
25. Install the brake booster vacuum hose (Figure 2).
26. Install the radiator coolant recovery bottle hose.
27. Install the two bolts for the rear aluminum intake manifold support bracket (Figure 2).
28. Install the intake manifold upper steel support bracket (Figure 2).
29. Inspect the EGR mixing chamber for excessive carbon build-up. Clean EGR mixing chamber, if required, using Mopar Throttle Body Cleaner (P/N 04897156AB).
30. Install the Exhaust Gas Recirculation (EGR) mixing chamber onto the intake manifold (Figure 1). Tighten the EGR mixing chamber bolts to 124 in. lbs. (14 N·m).
31. Install the intake manifold charge air hose (Figure 1).
32. Fill the engine cooling system with coolant.
33. Connect the negative battery cable.
34. Start the engine and visually inspect for fuel leaks.
CAUTION: It may take several seconds of engine cranking, several times, before the engine will start. This is due to air in the fuel tubes. Use care not to overheat the starter during the starting process.
35. Install the engine fuel injector cover onto the engine (Figure 1).

Completion Reporting and Reimbursement

Claims for vehicles that have been serviced must be submitted on the DealerCONNECT Claim Entry Screen located on the Service tab. Claims submitted will be used by Chrysler to record recall service completions and provide dealer payments.

Use one of the following labor operation numbers and time allowances:

	<u>Labor Operation Number</u>	<u>Time Allowance</u>
Inspect dash panel silencer pad and replace engine intake manifold	09-J3-21-82	6.1 hours
Replace dash panel silencer pad and engine intake manifold	09-J3-21-83	8.3 hours

Related Operation

Clean EGR mixing chamber	09-J3-21-50	0.2 hours
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Add the cost of the recall parts package plus applicable dealer allowance to your claim.

NOTE: See the Warranty Administration Manual, Recall Claim Processing Section, for complete recall claim processing instructions.

Dealer Notification

To view this notification on DealerCONNECT, select “Global Recall System” on the Service tab, then click on the description of this notification.

Owner Notification and Service Scheduling

All involved vehicle owners known to Chrysler are being notified of the service requirement by first class mail. They are requested to schedule appointments for this service with their dealers. A generic copy of the owner letter is attached.

Enclosed with each owner letter is an Owner Notification postcard to allow owners to update our records if applicable.

Vehicle Lists, Global Recall System, VIP and Dealer Follow Up

All involved vehicles have been entered into the DealerCONNECT Global Recall System (GRS) and Vehicle Information Plus (VIP) for dealer inquiry as needed.

GRS provides involved dealers with an updated VIN list of their incomplete vehicles. The owner's name, address and phone number are listed if known. Completed vehicles are removed from GRS within several days of repair claim submission.

To use this system, click on the “**Service**” tab and then click on “**Global Recall System.**” Your dealer's VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, zip code, or VIN sequence.

Dealers must perform this repair on all unsold vehicles before retail delivery. Dealers should also use the VIN list to follow up with all owners to schedule appointments for this repair.

Recall VIN lists may contain confidential, restricted owner name and address information that was obtained from the Department of Motor Vehicles of various states. Use of this information is permitted for this recall only and is strictly prohibited from all other use.

Additional Information

If you have any questions or need assistance in completing this action, please contact your Service and Parts District Manager.

Customer Services Field Operations
Chrysler Group LLC